#### 0069435

# SAF-RC-001 Industrial Hygiene Sampling FINAL DATA

NO DISTRIBUTION REQUIRED

**COMMENTS:** 

SDG <u>06I-0771-02</u> SAF-RC-001

Rad only X Chem only Rad & Chem

X Complete Partial

300 Area 333 Bldg







#### Cover Page

Report Identification Number: 06I-0771-02

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 /R33300 J451

Payroll#: 0636267



Web Page: www.datachem.com

E-mail: lab@datachem.com

**Sample Information** 

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
15 Feb 2006	J11596	06I06366	NMAM 7300M	G061P016	G WIPE
15 Feb 2006	J11595	06I06367	NMAM 7300M	G061P016	G WIPE
15 Feb 2006	J115Y0	06I06368	NMAM 7300M	G061P016	G WIPE
15 Feb 2006	J115Y1	06I06369	NMAM 7300M	G061P016	G WIPE
15 Feb 2006	J115X1	06106370	NMAM 7300M	G061P016	G WIPE

I certify that this electronic image and all hardcopies produced from this image accurately represent the data and are in compliance with the contract specific requirements, both technically and for completeness, other than the conditions detailed above or in the sample data package narrative. Release, by submission through email, the data contained in this electronic image and the computer-readable EDD (as applicable), has been authorized by the laboratory Manager or the Manager's designee.

Phone: (801) 266-7700

FAX: (801) 268-9992

Name: Lisa M. Reid Title: Chemist

Date: February 24, 2006





#### Case Narrative Page

Report Identification Number: 06I-0771-02

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 /R33300 J451

Payroll#: 0636267

General Set Information: There are 5 samples in set 06I-0771-02 and 8 samples in set 06I-0772-01 which were analyzed for cadmium, lead and beryllium on Ghost Wipe. No problems were encountered with the receipt of these samples and no contact with the CTR was required.

Method Summary: Samples were transferred to 50 ml centrifuge tubes and digested in the presence of 5 mL of nitric acid and 5 mL of ASTM Type II water. Samples were digested in a hot block set at 110°C for 60 minutes. Samples were then diluted to a 25 mL volume with ASTM Type II Water. Samples were shaken and delivered for ICP analysis.

<u>Sample Preparation:</u> All samples were prepared in accordance with DCL SOP "IH-AN-021" and NIOSH method NMAM 7300 modified for hot block digestion.

**<u>Holding Times:</u>** The holding times were met for both sample preparation and analysis.

Instrument Calibration: Instrument calibration was performed in accordance with NIOSH method NMAM 7300.

Initial and Continuing Calibration Verification Analysis: Beryllium, cadmium and lead recoveries in all Initial Calibration Verification (ICV) and Continuing Calibration Verification (CCV) samples are within the quality control limits of +/- 10%.

Initial and Continuing Calibration Blank Analysis: No beryllium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.02 ug/sample. No cadmium results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 0.07 ug/sample. No lead results were found in the Initial Calibration Blank (ICB) or Continuing Calibration Blanks (CCB) at levels above the Contract Required Detection Limits (CRDL) of 2. ug/sample.

Method Blank Analysis: No beryllium, cadmium or lead was found in any of the media blank samples above the Contract Required Detection Limit (CRDL).

Phone: (801) 266-7700

FAX: (801) 268-9992

Web Page: www.datachem.com

E-mail: lab@datachem.com

**Dilution(s):** None.





#### Case Narrative Page

Laboratory Control Sample and Duplicate Analysis: One Laboratory Control Sample (LCS) and one Laboratory Control Sample Duplicate (LCSD) were prepared and analyzed with the sample batch. The LCS result was within the control limits of +/- 20%. The Relative Percent Difference (RPD) between the LCS and the LCSD were within the control limit of 20%.

Replicate Analysis: One sample in this batch was replicated. The RPD between the samples and the replicates was within the control limit of 20%. If the result of the sample or replicate is below the CRDL, replicate analysis is negligible.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A

**Sample Calculation:** The final results are calculated by the following equation:

Final result for aqueous samples ( $\mu$ g/sample) = (A) x (B) x (C)

Where:

A = Analyte concentration from instrument determination ( $\mu g/L$ )

B = Concentration factor from sample preparation

= Final Volume of Digestate (L) Sample

C = Dilution performed at time of analysis

Example Calculation:  $(1 \mu g/L) \times (0.025 L/sample) \times (1) = 0.025 \mu g/sample$ 

Phone: (801) 266-7700

FAX: (801) 268-9992

Web Page: www.datachem.com

E-mail: lab@datachem.com

Miscellaneous Comments: None





### Report Page

Report Identification Number: 06I-0771-02

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF#: RC-001 /R33300 J451

Payroll#: 0636267

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Berylliun µg/sample		Cadmiun µg/sampl		Lead µg/sampl	e
J11596	06106366	22 Feb 2006	<0.02	U	<0.07	U	<2.	U
J11595	06I06367	22 Feb 2006	< 0.02	U	< 0.07	U	<2.	U
J115Y0	06106368	22 Feb 2006	< 0.02	U	< 0.07	U	<2.	U
J115Y1	06I06369	22 Feb 2006	< 0.02	U	< 0.07	U	<2.	U
J115X1	06I06370	22 Feb 2006	< 0.02	U	< 0.07	U	<2.	U
	Limit of I	Detection (LOD)	0.	02	0.	07		2.
R	equired Detecti	on Limit (RDL)						

Phone: (801) 266-7700

FAX: (801) 268-9992

Web Page: www.datachem.com

E-mail: lab@datachem.com

U - Parameter not detected above LOD.

J - Parameter between LOD and RDL.





#### QC Summary Page

Report Identification Number: 06I-0771-02

Subcontract Number: 0000X-BO-G0058-B-Mod#4

Name of Industrial Hygienist: Denise A. Pitts / Henry W. Ruby

Laboratory Identification Number: DCHM

SAF: RC-001 /R33300 J451

Payroll#: 0636267

Batch ID: G061P016

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
BL-241673-1	MB	Beryllium	μg/sample	ND	NA	NA	NA	NA
		<del></del>						
BL-241673-1	MB	Cadmium	μg/sample	ND	NA NA	NA	NA	NA .
BL-241673-1	MB	Lead	μg/sample	ND	NA	NA	NA	NA
QC-241673-1	LCS	Beryllium	μg/sample	11.3	NA	10.0	113.	NA
QC-241673-1	LCS	Cadmium	μg/sample	31.3	NA	30.0	104.	NA
QC-241673-1	LCS	Lead	μg/sample	103.	NA	100.	103.	NA
QD-241673-1	LCSD	Beryllium	μg/sample	11.6	11.3	10.0	116.	2.90
QD-241673-1	LCSD	Cadmium	μg/sample	31.9	31.3	30.0	106.	2.00
QD-241673-1	LCSD	Lead	μg/sample	105.	103.	100.	105.	2.14

Phone: (801) 266-7700

FAX: (801) 268-9992

Web Page: www.datachem.com

E-mail: lab@datachem.com

MB - Method Blank

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MSD - Matrix Spike Duplicate

LD - Laboratory Duplicate

NA - Not Applicable

ND - Parameter not detected above LOD

LCS, LCSD Percent Rec. = (Result / Target) \* 100.0

MS, MSD Percent Rec. = ((Result – Parent) / Target) \* 100.0

LCS, LCSD Relative Percent Diff. = ((|LCS - LCSD|) / ((LCS + LCSD)/2.0)) \* 100.

MS, MSD Relative Percent Diff. = ((|MS - MSD|)/((MS + MSD)/2.0)) \* 100.

LD Relative Percent Diff. = ((|Parent - LD|) / ((Parent + LD)/2.0)) \* 100



÷ .		<del></del>	<u> </u>								<u>.</u> .				¢	. : .1.1	. <u> </u>	ť.		2
							, ,	₫	5	3 2	٤	ş	ا ک	Ş	8		7			
			24 HVR			1830	£		Ca	×	×	<b>×</b>	~	×	×		9	ap-Src		
		Deta Tematrum	74			1/3	2		್≱ೆ							×	У	×	×	3
2	]					735	£		A E			4				<b>*</b>	×	×	×	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
0	1	2			2 E E	8544 9433	ž		Mode	250	3		33	35	5	, a	ğ	2	8	
00/1240J00	UEST	Project Coordinator John H. Kessner	SAFNa. RC-001	Method of Shapmen	Bill of Lading/Air Bill No.	8	£		Beryllian Wipe	120					>	*	×	<b>×</b>	*	
200	IS REQ	E	32	3	25		2		Beryllium Airborne	×	×	×	×	×	×	8	67	5	(S)	
3	NALYS	ا	ļ ļ	C	7 7 1		2	1	À E	×	×	×	×	<b>×</b>	×	attle Rale	P)			
	MPLE A	Telephone No. S31-1239	UCTIONS THE RE PER	HSI HSS	1300		2	1	Astessas Autome	اع	ş	ع	2	Na	2	Ž	-	2150		
;	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		SPECIAL INSTRUCTIONS All relevant COAs must be provided:	R33300 JH51	NIOSH 1300	+	# -	†	•	1	— ا								4	
	F CUST	Ě	9 4 9 4	by \$	{ Z	-	Preservation (i.e., cooling required, etc.)		3	Bank	Blank	Tersonal	Deve-rang (	\u003a	Consonal .	Blank	Blank	100cm2 10% StC * 44	LODOM TOP MEN NE AR	
	HAIN 0	Company Contact Dense A. Pints and Henry W. Raby	,	ding	]     2   3			$\frac{1}{2}$	VOLUME (L) or		4	Pode	1500	1509 1	200	よコ		745	Sen 7	
	၁	Company Contact Dense A. Pints and	Sampling Location 300 Area.	333 Building	Wipe Sample Media. Gloss (St. Yes. [		MATRIX AR WIPE OTHER	17.565	<b>}</b>	9		<del>}</del>					47		}	
	 	Compa	Sempling Loran 300 Area	33	Wipe S	8	¥ , , , , , , , , , , , , , , , , , , ,	SAMPLE ANALYSIS	SAMPLE DATE	2-15-th	2-15-C	94-51-6	37506	2-15-06	2-15-0	7-SF-C	2-15-06	245-06	3-15-C	
						AARKS		\ <b>S</b>				10	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	3	- 0	-	10	78	(0)	
		8		\$20	<u>چ</u> ۔	SAME TO CAL	D Wer Surape		MATEG	~	Q	4	4	<	đ	M	9	3	3	2005)
		LHO D Jones	73513	Airco's War	Votes Chem	PUSSIBLE SAMPLE HAZARDALINDEKS	Sported Handling and/or Surrage		SAMPLE NO.	, X	388	3XI	x3.	٠ <del>١</del> ٨	. 9X	96.	511595	411570	- 7	WCH-SH-202 (HW29/2015)
1502		7	ayrolf .	: 3 - 4	B	S S	2		7	TIIBX	111388	<b>J113X1</b>	J113x3	J.13x4	JX8112	J1159 b	7	5	7115	¥CH-84

DataChem Laboratories, Inc. 960 West Levoy Drive Salt Lake City, Utah 84123-2547 Phone: (801) 266-7700 FAX: (801) 268-9992 Web Page: www.datachem.com E-mail: lab@datachem.com



Enter on line below the first Sample Number from Page One:	CHAIN OF CUSTODY/SAMPLE ANALYSIS/REQUEST	DATE-TIME INTER-LINE	AN ALA AMOS 2-15-06 1515 STATEBOOKER PARIS PORTE BOLES CADENT 2-15-06 1516	The state of the s	Of Participalition orthogo 1140 RZ Staffer Po Staffe 2-21.06/ 1440	Donation   Inches	1600 Fed EX	THAT I ST	CORPUSATION OF TOWN OF THE PROPERTY OF THE PRO	×	METALINE JOSEPH PROPERTY JOSEP		Self : 1945	DATE: TIRE. Beautify Smil.	DATE TRACT Record Reforms	DATE TIME  Local by found  Loc	Regional By Warreth The DATE/THME	PRINTSIGN NAME	
Enter on line below the first Samp	-			To ted about 12/4	Chemon B	Comments of the same	12 Stoffer 11.7	(0)	140 CX	Mrs 3 W		•	behaprical by Sand	Military of Princes	Edward P. Sen.	Name and Description of the Control	SECTION Redewed By	REVIEWED BY:	Consideration and the United

Phone: (801) 266-7700 FAX: (801) 268-9992 Web Page: www.datachem.com E-mail: lab@datachem.com



April 123   Supplication   Sil1238   Such Longer   Sil1238   Such Longer   Sil1238   Such Longer	ector.		Commun	CHAIN	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	SAMPLEA	ANALY	SIS REQ	UEST					
Subject   Colored   Colo	- aver		Denie A. P	the and Houry W.	1	1 elephone 531-12	9 82 i	조목	oject Coordin en H. Keesner	<b>ä</b> .		Deta Tura	puno	
SEST-Building   R-33300 JAS1   Hobold Suppose	55(3				SPECIAL IN: All relevant C	STRUCTIONS OAs must be pr	ovided:		AF No.			24 Nm	8	
West with the property of the	1	X	333.6	وسكلنه		SO CLASS	PECIFIC	L	ethod of Supplement	I X			X	
Other   Othe	ۇ 7	ç	Wipe Sump	e Media:	1	1		1	Il of Letting/A	2 RES				
ASAMTE ANALYSIS  SAMTE ANALYSI	3	7			MOSH	738			90		5 46		403	,
SAMPLE ANALYSIS  A	SAMPLER	3								_			3	
SAMPLE ANALYSISS  AND		x Surage			reservation (Le., cooling required, etc.)	24	2	2	S.	2	2	2	2	8
MATILE SAMPLE BAST VOLUME G.)  WATER			SAMPLE ANALY	SE										3
WI 2-15-06 100 cm² Wie S.D.P NO.	END	MATRIX	SAMPLE DATE	VOLUME (L)		Ashestos	Airbone	Berytlium Airborne	Beryllium Wipe	N N	Ne de	3 1	Airborne Airporne	
	, X	3	2-15-06	150cm²	908	2		92	Olas X	20 2	×	×	9	3
							1				1		}	1
										_				
			/											
						/								
										-				
										/				
	-										/	1	,	

Phone: (801) 266-7700

FAX: (801) 268-9992

Web Page: www.datachem.com

E-mail: lab@datachem.com



CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST SIGN / PRINT NAMES / USE MILITARY TIME PRINT/SECH NAME WCH-SH-202 (0&29/2005) REVIEWED BY:

DataChem Laboratories, Inc. 960 West Levoy Drive Salt Lake City, Utah 84123-2547

Enter on line below the first Sample Number from Page One:

Phone: (801) 266-7700 FAX: (801) 268-9992

Web Page: www.datachem.com

E-mail: lab@datachem.com



			CHAIN	OF CU	STODY/S	MPLE A	NALYS	SIS RI	EQ	UEST					
Collector: Yethar D. Jo	w/ec	Company Co Denise A. Pit	ntact ts and Henry W.	Ruby		Telephone N 531-122				roject Coordina van H. Kessner	tor		Deta Tuma	round	
Payroll #: 73513	X &	Sampling Lot			SPECIAL INSTI All relevant CO		wided:			AF No. C-001			24	HOUR	
Type of Sample:	1005		Building		R33300 ANALYSIS M		eciac.		M	lethod of Shipm					
Shipped To: Doctor Che	$\sim$	Wipe Sample Ghost 🔼 Other	Media: No		NIOSH				В	ill of Lading/A	ir Bill No.	1420	- 4	830	
Solt Late POSSIBLE SAMPLE Be, Cd, P Special Handling and	,P	MATE A - AIR WI - WIF X - OTE	YE   1		l (i.e., cooling ed, etc.)	No	No	No	<u>i</u> .	No	Nυ	No	No	No	na
		SAMPLE ANALY		·		Ashestos	Lead	Berylliu	um	Beryllium		Lead	Cd	Cd	
SAMPLE NO.	MATRIX	SAMPLE DATE	VOLUME (L) o		Comments	Autorne	Airhome	Airbon	mc .	Wipe	Mold	Wipe	Wipe	Airburne	10
JII3X7	Α	2-15-06	NA	Bb	_ حليا	na	入 入	×						X	na
JUSXE	Δ	2-15-06	NA	BV	eve_	na	×	X	_					X	na
Jusxi	Δ	2-15-06	6991	_ per	rechal	na	X	X				\dj		X	<u>na</u>
J113x3	A	2-15-06	6031	- Per	zona O	na	X	X			2-15-06	- AR	7	X	na
J113x4	Α	2-15-06	605L	Ter	=0nol	na	X	X			$\mathbb{Q}$			X	na
J113X6	A	2-15-06	60L	pe	reonal	na	X	×						X	0
J11596	wı	2-15-06	NA	B	lank					<b>∠</b>	na	X	COPY	1	
J11595	WI	2-15-06	NA	Blo	euk_		18			X	no.	WPLE	X	-	
J11540	WI	2-15-06	100cm2	-	skc#44	عديد				X	n	Х	X	215.00	<u> </u>
JUSY	W1	2-15-06	100cm2	lob	MSA Neat				/	*	na	×	X		
WCH-SH-202 (08/29	72(N5)											Page _	UI L	t	

J113X7	
--------	--

_	CHA	LIN OF CUSTODY/SAM	IPLE ANALYSIS RE	QUEST	
	<u> </u>	SIGN / PRINT NAMES			
LAND	Val. T	DITE	Record By Sheet		DATE (IME
11/1/1/1/1	My Kella D. Mores 2-19	5-06 1515	3746 Building, Rm	110 porto de compart	2-15-06 1516
Tooked che	E bldg 3746 Kni #1	02/21/06/1440	Rz Steffler	R. S. Styll	2-21-06/1440
RZSteffler	1.2. Stell	WCH 2-21-06 /1600	Fed Ex		·
McNangan died By (non-c)		DATE/184L	Reuter of By States		PAIL / I MI
Ma Februari decal dis No. 44. 44. 19		DAGE / TIME	Base of Br/bread		DASE/IIME
Retinger du AMENTE et al		DATE ' FRAE.	Reserved Dy States		(+546 - 19Mg
Relangershed By Source		DATE / TIME	Bound SySteed		DZII - HM.
Reimprobed By Mered		DATE: ITME	Roused by Street		DATE / HME
Bullergerski d Ro. Starid		DATE / THME	Fir. creal \$1 Street		PAIF 11MS
Metingus S. I. Beris, 1.		DATE / PROE	Reserved By-Mared		DA11 - 198 <b>5</b>
LABORATORY SECTION	Received By	Title	•		DATE / FIME
REVIEWED BY:		···		DATE:	
		PRINT/SIGN NAME			

Page 2 of 4



			CHA	IO NL	F CU	STODY/S.	AMPLE .	ANALY	SIS RI	EQ	UEST					
Collector:	 >	Company Co Denise A. Pi		ry W. Rub	y		Telephone 1 531-122				oject Coordina an H. Keasner			Data Tum	bnuora	
Payroll #:		Sampling Lo		-	-	SPECIAL INST All relevant CO		ovided:			AF No. C-001			24 Na	ir_	
Type of Sample:	rxes	333°B	uidi	119		R3330 ANALYSIS N			1		ethod of Ships	EX_				
Shipped To: Dosta Che Salt Lake	m	Wipe Sampl Ghost •• Other	j-Yes □	No		MIDSH				Bii	H of Lading/A		943	-5-	4830	0
POSSIBLE SAMPLE H  Re, Ca, P  Special Handling and	IAZARD/REMARKS	MATI A - AIF WI - WI X - OT	e PE	Prese		i (i.e., cooling ed, etc.)	No	No	No	,	No	No	No	No	No	na
SAMPLE NO.	MATRIX	SAMPLE ANALY	VOLUMI			Comments	Asbestos Airborne	Lead Airborne	Beryllit Airbon		Beryllium Wipe	Mold	Lead Wipe	Cd Wipe	Cd Airborne	
			Area	_ (= '				-	<u> </u>				<del> </del>		<del> </del>	2
JUSXI	WI	2-15-06	1000	2m2	10°10	S.O.P	na	na	na	_	ᅩ	~~	X		100	na
							ļ		ļ						<del> </del>	<u> </u>
												6	7		$\mathbb{M}$	
												1	50	U	U	
						• • • • • • • • • • • • • • • • • • • •				•				-		
					· · · <u>- · · · · · · · · · · · · · · · ·</u>	··										
											FIEL	D SA	MPLE	COP	Y	
				-	_											
	r					· <u>-</u>										

Enter on line below the first Sample Number from Page One:

THEAT

	5	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	PLE ANALYSIS RE	QUEST	
7		SIGN / PRINT NAMES / USE MILITARY TIME	USE MILITARY TIME		
	7	DATE/The	heared by/bent		DAYE/194
	Salone (	3-15-06 1515	5146 Building Ru	3146 Building Rm le looks of calaboration	71 JO 50 18 4
The last	121 226 449 KM#16 WILLIAM				DATE/THE
Call	Older G. Wie Mala	04/1/ 901 E. 60 NO	RE St. Alle My	My Ather	2.21.06 /14411
	Harina C	bate/the /	bravet Byfannt		DATE/TD4E
RZ 5/411.	" No Stall	2-21-06 / 1600	Fed Ex		
Reinsquaded By-Stores		DATE / Thes	Activity by Daniel		DATL/TD6
Datespiece by Tomas		MIE/The	hearted by Barnel		DATE / TIME
Actoristics By Towns		DATE / The	Booked Bythond.		DATE (TIME
Retinepushed By-Stones		DATE, TDE	Accient Bytamat		DATE (TIME
Referenced By/kinsed		DATE / TNE	Accived By Turns		DATE / Tibel:
Resoquement By Stated		DATE/The	Textived by/lament		DATE/INCE
Authorgonalised By-Tacoma		DATE/ float	Nonvel By Sever		DATE / TIME.
LABORATORY SECTION	Received By	Title			DATE / TIME
REVIEWED BY:				DATE:	

PRINT/SIGN NAME